	Туре	L#	Hits	Search Text	DBs
1	BRS	L1	3	prothrombin same thrombin same (polyclonal or antiserum or antisera) same (absorb\$2 or absorption)	USPAT
2	BRS	L2	3	prothrombin same thrombin same (polyclonal or antiserum or antisera) same (absorb\$2 or absorption)	USPAT
3	BRS	L3	1	prothrombin same thrombin same (polyclonal or antiserum or antisera) same pivka	USPAT
4	BRS	L5	13	pivka	USPAT

09/23/2003, EAST Version: 1.04.0000

	Time Stamp	Comments	Error Definition	Err
1	2003/09/23 15:04			0
2	2003/09/23 15:16			0
3	2003/09/23 15:17			0
4	2003/09/23 15:18			0

Welcome to DIALOG

Dialog level 03.02.02D Logon file001 23sep03 14:47:36

? ds

Items Description

0 (PIVKA OR DES(2A)CARBOXYPROTHROMBIN) AND (POLYCLONAL OR S1

AN-

TISERUM OR ANTISERA) AND (ABSORP? OR ABSORB?)

990 (PIVKA OR DES(2W)CARBOXYPROTHROMBIN) S2

14 S2 AND (POLYCLONAL OR ANTISERUM OR ANTISERA) S3

8 RD (unique items) S4

77 S2 AND MONOCLONAL **S5**

S6 2 S5 AND S3

75 S5 NOT S3 S7

? logoff y

23sep03 14:52:55 User219516 Session D555.4

Logoff: level 03.02.02 D 14:52:55

Welcome to DIALOG Logon file001 23sep03 16:20:08

? ds

0 - 4	T. D.					
Set	Items Descrip	otion				
S 1	874 PIVKA	OR HYPOCARBOXYLATED(W)PROTHROMBIN				
S2	0 S1 AND	THROMBIN(3N)INTERFERENCE				
S3	0 S1 AND	FIBRIN(3N)INTERFERENCE				
S4		INTERFERENCE(5N)THROMBIN				
S5	0 S1 AND	THROMBIN(5N)CROSS(W)REACT?				
S6	0 S1 AND	FIBRIN(5N)CROSS(W)REACT?				
? lo	goff y					
23sep03 16:24:55 User219516 Session D557.3						

23sep03 16:24:55 User219516 Session D557.3 Logoff: level 03.02.02 D 16:24:55 02676917 BIOSIS NO.: 000067064986

ANTIBODIES DIRECTED AGAINST A GAMMA CARBOXY GLUTAMIC-ACID-RICH REGION OF

BOVINE PROTHROMBIN PREPARATION ISOLATION AND CHARACTERIZATION AUTHOR: FURIE B; PROVOST K L; BLANCHARD R A; FURIE B C AUTHOR ADDRESS: HEMATOL. SECT., TUFTS-N. ENGL. MED. CENT., TUFTS UNIV. SCH.

MED., BOSTON, MASS. 02111, USA.

JOURNAL: J BIOL CHEM 253 (24). 1978 (RECD. 1979). 8980-8987. 1978

FULL JOURNAL NAME: Journal of Biological Chemistry

CODEN: JBCHA

RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: Antibodies directed against the .gamma.-carboxyglutamic acid-rich region of prothrombin were isolated from antisera raised in rabbits immunized with native bovine prothrombin. Antibodies prepared against prothrombin were fractionated by sequential immunoabsorption using prothrombin and prothrombin fragments to yield a population of antibodies specific for the region of prothrombin from amino acid residue 12 to residue 44. The anti-(12-44)N antibodies formed soluble complexes with prothrombin and inhibited the conversion of prothrombin to thrombin in plasma. The anti-(12-44)N antibodies were Ig[immunoglobulin]G immunoglobulins that were heterogeneous with regard to charge and affinity for prothrombin. Anti-(12-44)N antibodies contained high affinity and low affinity antibody subpopulations which bound prothrombin with an average Kassoc of 2.6 .times. 107 M-1 (12-44)N was metal-dependent and bound prothrombin strongly only in the presence of CaCl2. Prothrombin and fragment 1 competed equally with 125I-labeled prothrombin for anti-(12-44)N, but a 250-fold molar excess of fragment 12-44 to prothrombin and a 100-fold molar excess of abnormal prothrombin (des-.gamma.-carboxyprothrombin) to prothrombin were required to inhibit 50% of the prothrombin from binding anti-(12-44)N. .gamma.-Carboxyglutamic acid did not compete with prothrombin for anti-(12-44)N. Anti-(12-44)N antibodies appeared to be conformationally specific for the native format of the region 12-44 in prothrombin and cross-react poorly with the region 12-44 in prothrombin and cross-react poorly with the region 12-44 in abnormal prothrombin. Some of these antibodies were directed against an antigenic determinant whose geometry was Ca(II)-dependent. The Ca(II)-dependent structural transition of prothrombin apparently involves, in part, alteration of the tertiary structure of the region 12-44.

02676917 BIOSIS NO.: 000067064986

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